

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER) BOARD AND CODE ADMINISTRATION DIVISION

## NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY PRODUCT CONTROL SECTION 11805 SW 26 Street, Room 208 T (786) 315-2590 F (786) 315-2599 www.miamidade.gov/economy

WinDoor, Inc. 7500 Amsterdam Drive Orlando, FL 32832

Scope:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "9000 Shallow 180° Thermally Broken" Clipped Aluminum Tube Mullion - L.M.I.

APPROVAL DOCUMENT: Drawing No. 08-01377, titled "9000 Series Shallow 180° Vertical Mullion – LMI and SMI 120" Span", sheets 1 through 5 of 5, dated 12/12/11, with revision B dated 09/04/13, prepared by manufacturer, signed and sealed by Luis R. Lomas, P.E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Section.

## MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by Manuel Perez, P.E.

(MIAMI-DADE COUNTY)
APPROYED

19/26/13

NOA No. 13-0723.02 Expiration Date: October 03, 2018 Approval Date: October 03, 2013

Page 1

## WinDoor, Inc.

#### NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

#### A. DRAWINGS

- 1. Manufacturer's die drawings and sections.
- 2. Drawing No. **08-01377**, titled "9000 Series Shallow 180° Vertical Mullion LMI and SMI 120" Span", sheets 1 through 5 of 5, dated 12/12/11, with revision B dated 09/04/13, prepared by manufacturer, signed and sealed by Luis R. Lomas, P.E.

#### B. TESTS

- 1. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
  - 2) Large Missile Impact Test per FBC, TAS 201-94
  - 3) Cyclic Wind Pressure Loading per FBC, TAS 203-94

along with marked-up drawings and installation diagram of a series 9020 thermally broken aluminum fixed windows with 180° thermally broken field mullion, prepared by National Certified Testing Laboratories, Test Report No. **NCTL-210-3774-4**, dated 07/25/12, signed and sealed by Gerard J. Ferrara, P.E.

#### C. CALCULATIONS:

1. Anchor verification calculations and structural analysis, complying with **FBC-2010**, dated 09/04/12 and 07/11/13, prepared, signed and sealed by Luis R. Lomas, P.E.

## A. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

## B. MATERIAL CERTIFICATIONS

- 1. Material Data Sheet for "insulating profiles made of PA 66 GF25 dry impact resistant, to fit into Technoform I-Strut<sup>TM</sup> Aluminum Standard Reglet.
- 2. Test report No. ATI-61261.01-106-18, prepared by Architectural Testing, Inc., dated 12/08/05, with revision date 01/04/06, issued to Technoform, for their <u>I-Strut Insulating Strip</u> comprised of <u>Polyamide with 25% glass fibers</u>, per ASTM D635-03 "Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position" and ASTM D2843-99 "Standard Test Method for the Density of Smoke from the Burning Decomposition of Plastics", signed and sealed by Joseph A. Reed, P.E.
- 3. Test report No. ETC-07-1043-19094.0, prepared by ETC Laboratories, dated 02/04/08, issued to Technoform Bautec NA, Inc., for their <u>I-Strut Insulating Strip</u> comprised of <u>Polyamide with 25% glass fibers</u>, per ASTM D638-03 "Standard Test Methods for Tensile Properties of Plastics", for exposed & unexposed sample per Xenon Arc after 4500 Hours, signed and sealed by Joseph Labora Doldan, P.E.

Manuel Perez, P.E. Product Control Examiner NOA No. 13-0723.02

Expiration Date: October 03, 2018 Approval Date: October 03, 2013

## WinDoor, Inc.

## NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

## E. MATERIAL CERTIFICATIONS (CONTINUED)

4. Test report No. ETC-08-1043-20974.0, prepared by ETC Laboratories, dated 07/01/08, issued to Technoform, for their <u>I-Strut Insulating Strip</u> comprised of <u>Polyamide with 25% glass fibers</u>, per ASTM D1929-96 "Standard Test Method for Ignition Properties of Plastics", signed and sealed by Joseph Doldan, P.E.

#### D. STATEMENTS

- 1. Statement letter of conformance, complying with the **FBC-2010** and of no financial interest, dated July 11, 2013, signed and sealed by Luis R. Lomas, P.E.
- 2. Proposal #11-1698 issued by Product Control on 02/28/12 signed by Manuel Perez, P.E.

#### G. OTHERS

1. None.

Manuel Perez, P.E. Product Control Examiner NOA No. 13-0723.02

Expiration Date: October 03, 2018 Approval Date: October 03, 2013

	REVISIONS		·
REV	DESCRIPTION	DATE	APPROVED
Α	REVISED PER NEW TESTING	07/15/13	R.L.
В	REVISED B.O.M.	09/04/13	R.L.

#### NOTES:

- 1) THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE. IN ACCORDANCE WITH SECTION 1715.5.5
- 2) WOOD FRAMING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
- 3) ALLOWABLE STRESS INCREASE OF 1/3 WAS NOT USED IN THE DESIGN OF THE PRODUCT SHOWN HEREIN. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
- 4) APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
- 5) DESIGN PRESSURE AND INSTALLATION DETAILS SHOWN IN THIS DOCUMENT APPLY ONLY TO MULLION. WINDOWS MUST BE APPROVED UNDER SEPARATE APPROVAL.
- 6) SINGLE WINDOWS TO BE MULLED ARE NOT LIMITED TO THOSE SHOWN IN THIS DRAWING. WINDOWS MUST BE MANUFACTURED BY WinDoor INC.
- 7) DESIGN PRESSURE OF MULLED UNIT SHALL BE CONTROLLED BY THE LESSER DESIGN PRESSURE OF THE MULLION OR THE INDIVIDUAL WINDOW OR DOOR UNIT.
- 8) UNITS MAY BE MULLED TOGETHER INDEFINITELY AS LONG AS SINGLE UNIT WIDTH AND HEIGHT ARE NOT EXCEEDED AND MULLION IS ANCHORED AS SHOWN HEREIN.
- 9) MULLION VERTICAL INSTALLATION IS SHOWN, MULLION MAY BE USED IN HORIZONTAL APPLICATIONS AS LONG AS DIMENSIONS INDICATED HEREIN ARE NOT EXCEEDED AND MULLION IS ANCHORED ACCORDING TO THIS DOCUMENT.

WinDoor 7500 AMSTERDAM DRIVE ORLANDO, FL 32832

Approved as complying with the Florida Building Code 2013
Date Oct 3, 2013
NOAN 73 - 0773,007
Midami Wade Product Control
By Manual Sub

WinDoor INCORPORATED

ORLANDO, FL 32832
Phone: 407.481.8400
Pax: 407.481.0505 www.windo

407.481.8400 7.481.0505 www.windoorinc.com

9000 SERIES SHALLOW 180° VERTICAL MULLION
LMI AND SMI 120" SPAN
ELEVATION AND NOTES

DRAWN: DWG NO. REV
R.L. 08-01377 B

SCALE NTS DATE 12/12/11 SHEET 1 OF 5

\* No. 62514 \*
No. 62514 \*
No. 62514 \*
STATE OF THE STATE

TABLE OF CONTENTS

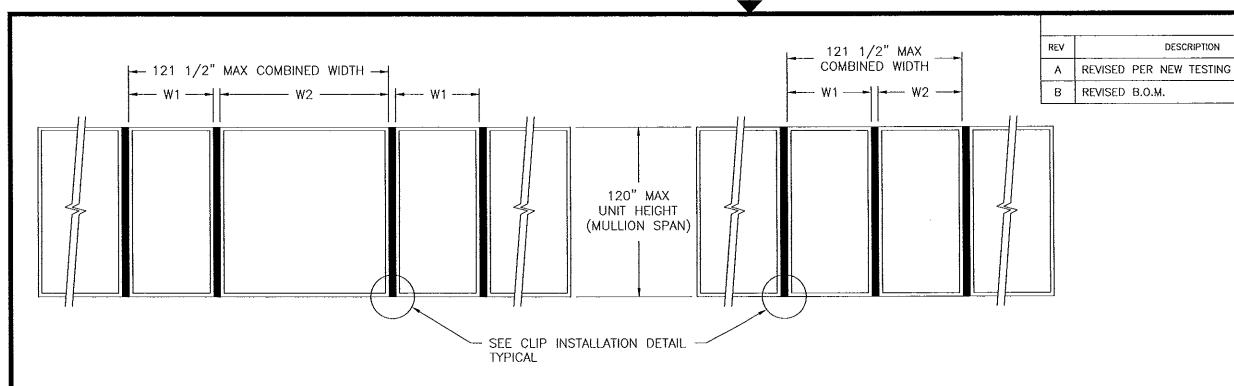
SHEET NO. DESCRIPTION

1 NOTES

2 ELEVATIONS DESIGN PRESSURE CHART

3 BILL OF MATERIALS AND COMPONENTS

4 - 5 INSTALLATION DETAILS



Maximum design pressure (psf)

1 la lada 6	Tributary width													
Height	24.0		30.0		36.0		42.0		48.0		54.0		60.0	
(in)	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
26.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150,0	150.0	150.0	150.0	150.0	150.0	150.0
30.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
36.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
42.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
48.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
54.0	150.0	150.0	150.0	150,0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
60.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	145.8	145.8	141.4	141.4	140.0	140.0
66.0	150.0	150.0	150.0	150.0	145.8	145.8	133.3	133.3	125.0	125.0	119.7	119.7	116.7	116.7
72.0	150.0	150.0	147.4	147.4	129.6	129.6	117.6	117.6	109.4	109.4	103.7	103.7	100.0	100.0
78.0	150.0	150.0	133.3	133.3	116.7	116.7	105.3	105.3	97.2	97.2	91.5	91.5	87.5	87.5
84.0	145.8	145.8	121.7	121.7	106.1	106.1	95.2	95.2	87.5	87.5	81,9	81.9	77.8	77.8
90.0	134.6	134.6	112.0	112.0	97.2	97.2	87.0	87.0	79.5	79.5	74.1	74.1	70.0	70.0
96.0	125.0	125.0	103.7	103.7	89.7	89.7	80.0	80.0	72.9	72.9	67.6	67.6	63.6	63.6
102.0	116.7	116.7	96.6	96.6	83.3	83.3	74.1	74.1	67.3	67.3	62.2	62.2	58.3	58.3
108.0	109.4	109.4	90.3	90.3	77.8	77.8	69.0	69.0	62.5	62.5	57.6	57.6	53.8	53.8
114.0	102.9	102.9	84.8	84.8	72.9	72.9	64.5	64.5	57.7	57.7	52.1	52.1	47.8	47.8
120.0	97.2	97.2	80.0	80.0	67.3	67.3	58.3	58.3	51.7	51.7	46.7	46.7	42.7	42.7
MISSILE LEVEL D , WIND ZONE 4 AND HVHZ														

TRIBUTARY WIDTH =  $\frac{W1 + W2}{2}$ 

#### DESIGN PRESSURE TABLE INSTRUCTIONS:

- 1) DEFINE REQUIRED DESIGN LOAD PER FLORIDA BUILDING CODE CHAPTER 16.
- DETERMINE TRIBUTARY WIDTH AND MULLION SPAN BASED ON PRODUCT TO BE INSTALLED. SEE FORMULA FOR TRIBUTARY WIDTH.

REVISIONS

DESCRIPTION

LOCATE MULLION SPAN (UNIT HEIGHT) AND TRIBUTARY WIDTH. AT THE INTERSECTION OF ROW AND COLUMN CONTAINING THE MULLION SPAN AND TRIBUTARY WIDTH RESPECTIVELY IS THE MULLION RATING FOR PRODUCT IN STEP 2. MULLION RATING MUST BE EQUAL OR GREATER THAN REQUIRED DESIGN PRESSURE OBTAINED IN STEP 1.

SIGNED: 09/04/2013

APPROVED

R.L.

R.L.

DATE

07/15/13

09/04/13

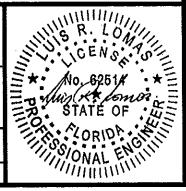
Approved as complying with the Biorlin Briding Code. Date Oct. 3, 2013 NOAH 13-0723.02	WinDoor ORI INCORPORATED Phone Part 40			
Missel Dade Product Control  By Maul Are	LN	SHALLOW 180° VE MI AND SMI 120" S ELEVATION AND NO		
	DRAWN:	DWG NO.		
	R.L.	08-01		

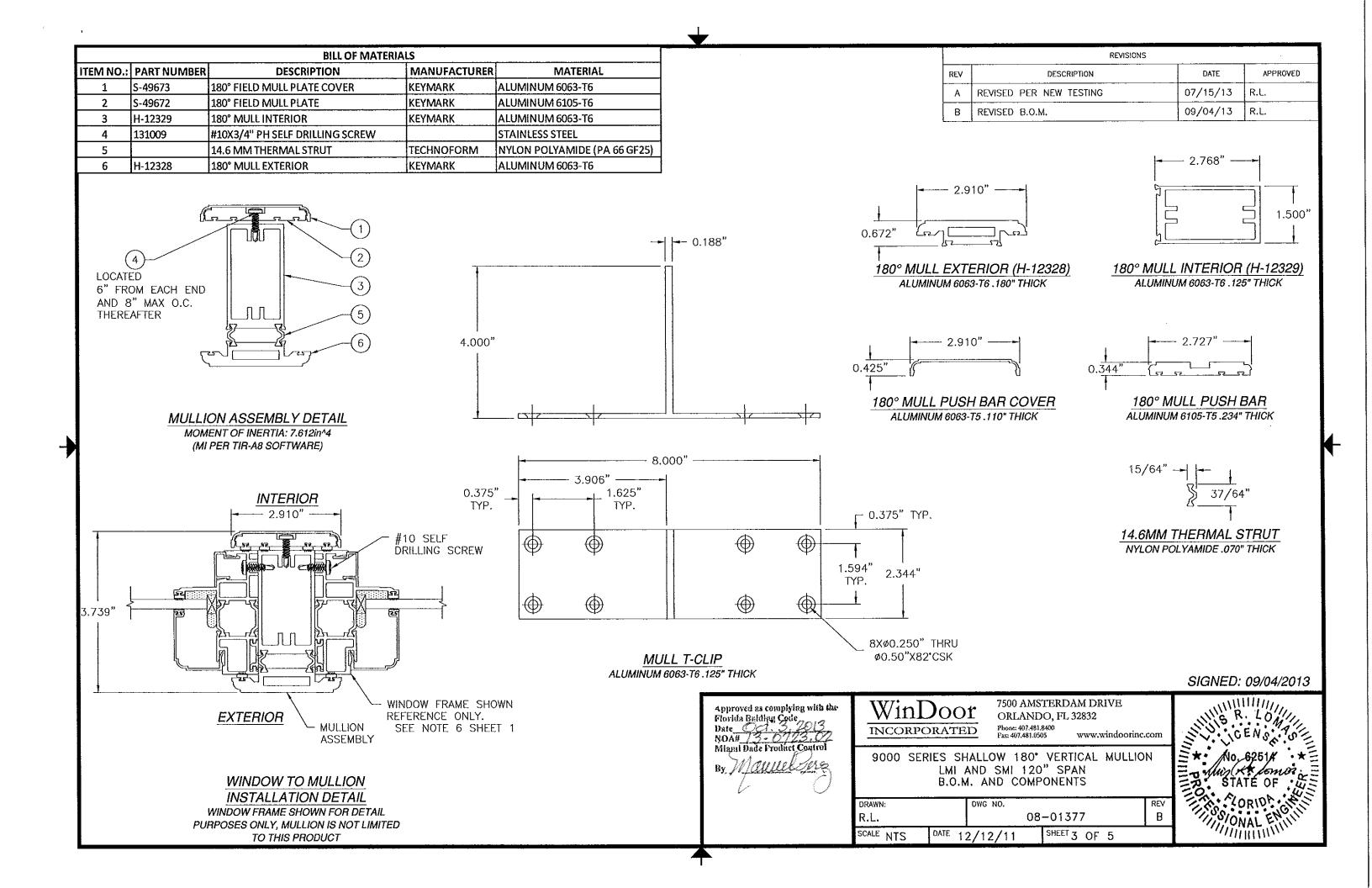
RDAM DRIVE FL 32832

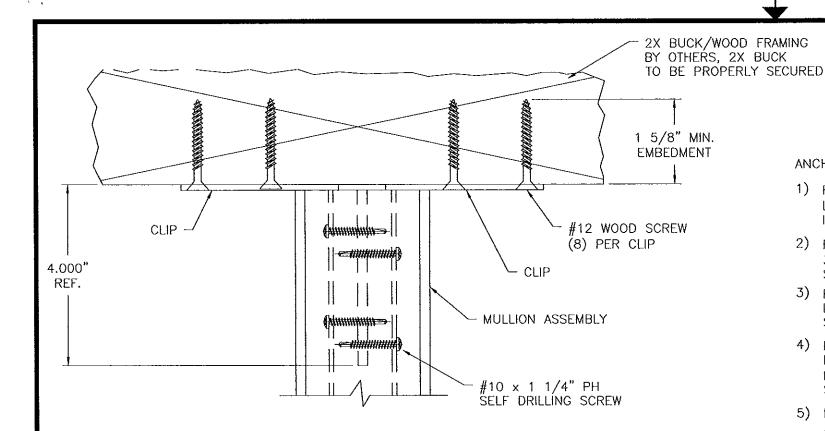
www.windoorinc.com

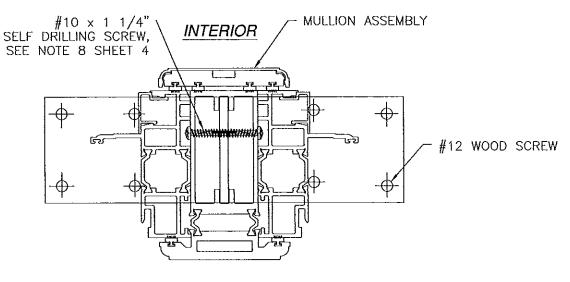
RTICAL MULLION SPAN TES

DRAWN:		DWG NO.	<del></del>	REV
R.L.		0	8-01377	В
SCALE NTS	DATE 1	2/12/11	SHEET 2 OF 5	









**EXTERIOR** 

CLIP INSTALLATION DETAIL 2X BUCK/WOOD FRAMING, TOP & BOTTOM SIMILAR

REVISIONS DATE APPROVED REV DESCRIPTION 07/15/13 R.L. REVISED PER NEW TESTING 09/04/13 R.L. REVISED B.O.M.

#### ANCHORING NOTES:

- 1) FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK USE #12 WOOD SCREW WITH SUFFICIENT LENGTH TO ACHIEVE A 1 5/8" MINIMUM EMBEDMENT. LOCATE ANCHORS AS SHOWN IN INSTALLATION DETAILS SHEET 3.
- 2) FOR ANCHORING INTO CONCRETE USE 1/4" TAPCON WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/4" MINIMUM EMBEDMENT WITH 2 1/2" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN INSTALLATION DETAILS SHEET 4.
- 3) FOR ANCHORING INTO METAL STRUCTURE USE #12 SELF DRILLING SCREW WITH SUFFICIENT LENGTH TO ACHIEVE 3-THREADS MINIMUM BEYOND METAL FRAMING. LOCATE ANCHORS AS SHOWN IN INSTALLATION DETAILS SHEET 4.
- FOR ATTACHING WINDOW UNITS TO MULLION USE #10 SELF DRILLING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A MINIMUM EMBEDMENT OF THREE THREADS PAST THE MULLION WALL. LOCATE SCREWS 6" FROM FACH MULLION END AND 24" MAX. O.C. THEREAFTER. STAGGER SCREWS AT EACH WINDOW.
- 5) FOR WINDOW AND DOOR UNITS ANCHORING SCHEDULE REFER TO WINDOW AND DOOR APPROVED INSTALLATION INSTRUCTIONS.
- 6) ALL FASTENERS TO BE CORROSION RESISTANT.
- INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BELOW:
  - A. WOOD MINIMUM SPECIFIC GRAVITY OF G=0.42
  - B. CONCRETE 2000 PSI MINIMUM
  - C. METAL STRUCTURE STEEL 16GA. (.063") 33KSI MINIMUM OR ALUMINUM 6063-T5 1/8" THICK MINIMUM.
- TO ATTACH MULLION TO CLIP USE (4) #10 x 1 1/4" SELF DRILLING SCREWS PER CLIP. SCREWS MUST BE FIELD INSTALLED. HOLES FOR SCREWS ARE NOT PRE-DRILLED BY MANUFACTURER.

SIGNED: 09/04/2013

Approved as complying with the Florida Building Code
Date 0 3, 3, 2013 NOAN 13-0723.07
Milaral Dade Product Control
By Mallie Jera

 ${
m WinDoor}$ INCORPORATED 7500 AMSTERDAM DRIVE ORLANDO, FL 32832

Phone: 407.481.8400 Pax: 407.481.0505

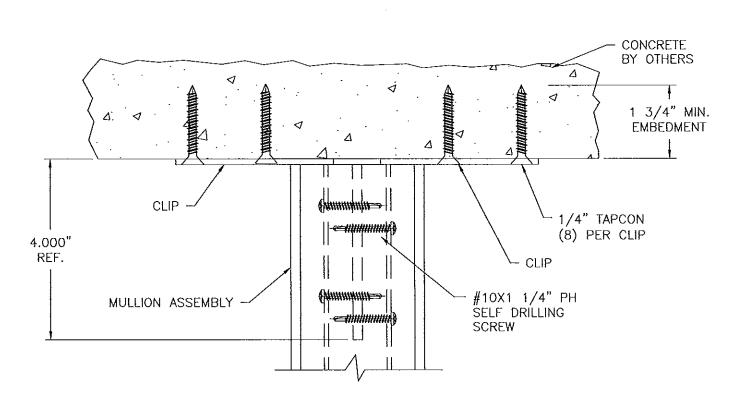
www.windootinc.com

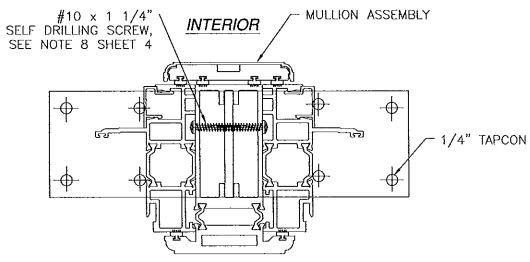
9000 SERIES SHALLOW 180° VERTICAL MULLION LMI AND SMI 120" SPAN INSTALLATION DETAILS

DRAWN: DWG NO. SCALE NTS

В 08-01377 DATE 12/12/11 SHEET 4 OF 5

Min Xx Comos POONAL ENIN STATE OF

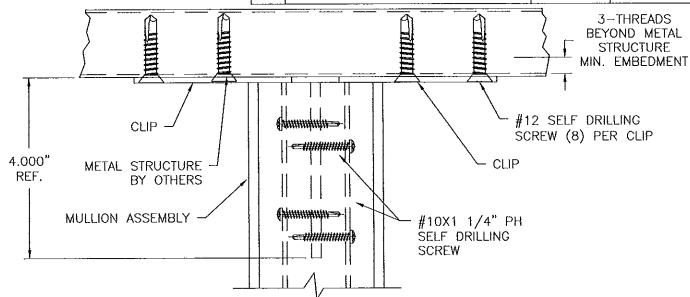


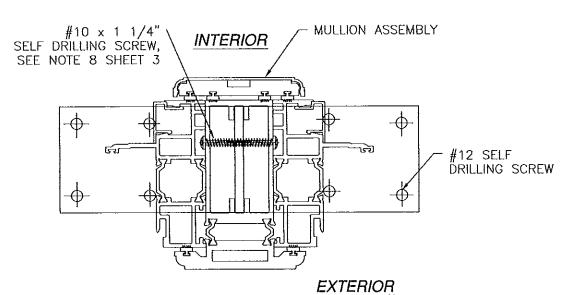


**EXTERIOR** 

CLIP INSTALLATION DETAIL CONCRETE INSTALLATION, TOP & BOTTOM SIMILAR







# CLIP INSTALLATION DETAIL

METAL STRUCTURE, TOP & BOTTOM SIMILAR SIGNED: 09/04/2013



WinDoor INCORPORATED

7500 AMSTERDAM DRIVE ORLANDO, FL 32832

Phone: 407.481.8400 Fax: 407.481.0505

www.windoorinc.com

9000 SERIES SHALLOW 180° VERTICAL MULLION LMI AND SMI 120" SPAN INSTALLATION DETAILS

DRAWN: DWG NO. 08-01377 SCALE NTS SHEET 5 OF 5 DATE 12/12/11

STATE OF STA